PowerShot G7 X

Power and creativity in your pocket

Explore boundless creativity with stunning results from a pocketable camera. Day or night this expert Wi-Fi compact can deliver the images you want - thanks to a bright f/1.8-2.8 lens, large 1.0-type sensor and super responsive shooting.

f/1.8-2.8 ZOOM LENS · 1.0 type CMOS · 20.2 MEGA PIXELS HIGH-SENSITIVITY CMOS · HS SYSTEM · DIGIC 6 · 24mm WIDE 4.2x · Control Ring · INTELLIGENT IS · 7.5cm 3.0" Tilt-up Touch · Wi-Fi CERTIFIED · NFC

- Capture beautiful background blur and superb detail with bright f/1.8-2.8, 24mm, 4.2x zoom lens
- Stunning performance in any situation with 1.0-type, 20.2MP CMOS
- Master low light shots with HS System, DIGIC 6 and Intelligent IS
- Stay in control with the Lens Control Ring, Full Manual and RAW
- Perfectly frame your shots on 1,040k sRGB dot, tilt touchscreen with Touch AF
- Catch the action with high-speed 31-point AF and sustained continuous shooting
- Capture stories in motion with Full HD 60p and manual movie control
- Connect, share or backup instantly using Wi-Fi with NFC; GPS and remote shooting via smartphone
- Shoot starry skies with Star Mode; experiment with HDR and Background Defocus
- Enjoy full automatic shooting plus short clips of your shots with Hybrid Auto

Product Range

PowerShot G1 X Mark II

PowerShot G7 X

PowerShot G16

PowerShot G1 X Mark II
PowerShot G7 X
PowerShot G16
PowerShot S120
PowerShot S200

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Technical Specifications

PowerShot G7 X

IMAGE SENSOR

Type	1.0 type back-illuminated CMOS
Effective Pixels	Approx. 20.2M (Aspect ratio 3:2) [14]
Effective / Total Pixels	Approx. 20.9M
Colour Filter Type	Primary Colour

IMAGE PROCESSOR

Type	DIGIC 6 with iSAPS technology

LENS

Focal Length	8.8 – 36.8 mm (35 mm equivalent: 24 – 100 mm)
Zoom	Optical 4.2x ZoomPlus 8.4x Digital Approx. 4x (with Digital Tele-Converter approx. 1.6x or 2.0x [1]) Combined approx. 17x
Maximum f/number	f/1.8-f/2.8
Construction	11 elements in 9 groups (1 double sided aspherical lens, 1 single sided aspherical UA lens, 1 single sided aspherical lens and 1 UD lens)
Image Stabilisation	Yes (lens shift-type), approx. 3-stop [13]. Intelligent IS with 5-axis Enhanced Dynamic IS

FOCUSING

Type	TTL
AF System/ Points	AiAF (31-point, Face Detection or Touch AF with Object and Face Select and Track), 1-point AF (any position is available or fixed centre)
AF Modes	Single, Continuous, Servo AF/AE [6], Touch AF
AF Point Selection	Size (Normal, Small)
AF Lock	Yes, via customisable buttons
AF Assist Beam	Yes
Manual Focus	Yes, plus MF Peaking
Focus Bracketing	Yes
Closest Focusing Distance	5 cm (Wide) from front of lens 40 cm (Tele) from front of lens

EXPOSURE CONTROL

Metering modes	Evaluative (linked to Face Detection AF frame), Centre-weighted average, Spot (centre or linked to Touch AF frame)
AE Lock	Yes, via customisable buttons
Exposure Compensation	+/- 3 EV in 1/3 stop increments Manual and automatic dynamic range correction Automatic shadow correction ND Filter (3-stop)
AEB	1/3 – 2 EV in 1/3 stop increments
ISO sensitivity	125, 160, 200, 250, 320, 400, 500, 640, 800, 1000, 1250, 1600, 2000, 2500, 3200, 4000, 5000, 6400, 8000, 10000, 12800 [15] AUTO ISO: 125 - 12800 (possible to set Max. ISO speed and rate of change)

SHUTTER

Speed	1 – 1/2000 sec. (factory default) 250 – 1/2000 sec. (total range – varies by shooting mode)

WHITE BALANCE

Type	TTL
Settings	Auto (including Face Detection WB), Daylight, Shade, Cloudy, Tungsten, Fluorescent, Fluorescent H, Flash, Underwater, Custom 1, Custom 2 Multi-area WB correction available in Smart Auto White Balance Compensation White Balance Compensation in Underwater mode Colour adjustment in Star mode

COLOUR MATRIX

Type	sRGB

LCD MONITOR

Monitor	Tilt type 7.5 cm (3.0") sRGB PureColor II G Touchscreen LCD (TFT). 3:2 aspect ratio. Approx. 1,040,000 dots. Capacitive type
Coverage	Approx. 100%
Brightness	Adjustable to one of five levels. Quick-bright LCD

FLASH

Modes	Auto, Manual Flash On / Off, Slow Synchro
Slow Sync Speed	Yes. Fastest speed 1/2000 sec.
Red-Eye Reduction	Yes
Flash Exposure Compensation	+/- 2 EV in 1/3 stop increments. Face Detection FE, Safety FE, Smart Flash Exposure
Flash Exposure Lock	Yes
Manual Power Adjustment	3 levels with internal flash
Second Curtain Synchronisation	Yes
Built-in Flash Range	50 cm – 7.0 m (W) / 40 cm – 4.0 m (T)
External Flash	Canon High Power Flash HF-DC2

SHOOTING

Modes	Smart Auto (58 scenes detected), Program AE, Shutter priority AE, Aperture priority AE, Manual, Custom, Hybrid Auto, Creative Shot, SCN (Portrait, Smart Shutter (Smile, Wink Self-Timer, FaceSelf-Timer), Star (Star Nightscape, Star Trails, Star Portrait, Star Time-Lapse Movie), Handheld Night Scene, Underwater, Snow, Fireworks), Creative Filters (High Dynamic Range, Nostalgic, Fish-eye Effect, Miniature Effect, Toy Camera Effect, Background Defocus, Soft Focus, Monochrome, Super Vivid, Poster Effect), Movie
Modes in Movie	Smart Auto (21 scenes detected), Standard, Program AE, Manual, Portrait, Nostalgic, Miniature Effect, Monochrome, Super Vivid, Poster Effect, Underwater, Snow, Fireworks, iFrame Movie
Photo Effects	My Colors (My Colors Off, Vivid, Neutral, Sepia, Black & White, Positive Film, Lighter Skin Tone, Darker Skin Tone, Vivid Blue, Vivid Green, Vivid Red, Custom Color)
Drive modes	Single, Auto Drive, Continuous, Continuous with AF, Self-Timer
Continuous Shooting	Approx. 6.5 shots/sec for up to 692 frames [12] with AF: Approx. 4.4 shots/sec [3][4] with Live View: Approx. 4.4 shots/sec [3][4]

RECORDING PIXELS / COMPRESSION

Image Size	3:2 - (RAW, L) 5472 x 3648, (M1) 4320 x 2880, (M2) 2304 x 1536, (S) 720 x 480 4:3 - (RAW, L) 4864 x 3648, (M1) 3840 x 2880, (M2) 2048 x 1536, (S) 640 x 480 16:9 - (RAW, L) 5472 x 3080, (M1) 4320 x 2432, (M2) 1920 x 1080, (S) 720 x 408 1:1 - (RAW, L) 3648 x 3648, (M1) 2880 x 2880, (M2) 1536 x 1536, (S) 480 x 480 4:5 - (RAW, L) 2912 x 3648, (M1) 2304 x 2880, (M2) 1232 x 1536, (S) 384 x 480 Resize in playback (M2, S)
Compression	RAW, Superfine, Fine
Movies	(Full HD) 1920 x 1080, 60 fps / 30 fps (HD) 1280 x 720, 30 fps (L) 640 x 480, 30 fps Star Time-Lapse Movie (Full HD) 30 fps / 15 fps Miniature Effect (HD, L) 6 fps, 3 fps, 1.5 fps Hybrid Auto (HD) 30 fps iFrame Movie (Full HD) 30 fps
Movie Length	(Full HD & HD) Up to 4 GB or 29 min. 59 sec. [7] (L) Up to 4 GB or 1 hour [4] (Star Time-Lapse Movie) up to 128 sec

FILE TYPES

Still Image Type	JPEG compression (Exif 2.3 [Exif Print] compliant) / Design rule for Camera File system and DPOF ver. 1.1 compliant), RAW, RAW+JPEG
Movies	MP4 [Video: MPEG-4 AVC / H.264, Audio: MPEG-4 AAC-LC (stereo)] iFrame

DIRECT PRINT

Canon Printers	Canon SELPHY Compact Photo Printers and Canon Inkjet Printers supporting PictBridge
PictBridge	Yes (via USB or Wireless LAN)

OTHER FEATURES

GPS	GPS via mobile (linked to a compatible smartphone)
Red-Eye Correction	Yes, during shooting and playback
My Camera / My Menu	My Menu customisation available
My Category	Image tagging feature
Intelligent Orientation Sensor	Yes
Histogram	Yes, live histogram
Playback zoom	Approx. 2x – 10x
Self Timer	Approx. 2 or 10 sec., Custom
Menu Languages	English, German, French, Dutch, Danish, Finnish, Italian, Greek, Norwegian, Portuguese, Russian, Swedish, Spanish, Ukrainian, Polish, Czech, Hungarian, Turkish, Simplified Chinese, Chinese (traditional), Japanese, Korean, Thai, Arabic, Romanian, Farsi, Hindi, Malay, Indonesian, Vietnamese, Hebrew

INTERFACE

Computer	Hi-Speed USB (MTP, PTP) DIGITAL connector
Other	HDMI Micro Connector A/V output (PAL/NTSC)
Computer/Other	Wireless LAN (IEEE802.11b/g/n), (2.4 GHz only), with NFC support [11]

MEMORY CARD

Type	SD, SDHC, SDXC (UHS Speed Class 1 compatible)

Canon Inc.
canon.com
Canon Europe
canon-europe.com
English edition
Canon Europa NV 2014

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Technical Specifications

PowerShot G7 X

SUPPORTED OPERATING SYSTEM	
PC & Macintosh	Windows 8 / 8.1 / 7 SP1 Mac OS X 10.8 / 10.9 For Wi-Fi connection to a PC: Windows 8 / 8.1 / 7 SP1 Mac OS X 10.8.2 or later / 10.9
SOFTWARE	
Browsing & Printing	ImageBrowser EX CameraWindow
Other	PhotoStitch Map Utility
Image Manipulation	Digital Photo Professional for RAW development
POWER SOURCE	
Batteries	Rechargeable Li-ion Battery NB-13L (battery and charger supplied)
Battery life	Approx. 210 shots Eco mode approx. 310 shots Approx. 240 min. playback
A/C Power Supply	Optional, AC Adapter Kit ACK-DC110
ACCESSORIES	
Cases / Straps	Soft Case DCC-1870 PowerShot Accessory Organizer
Waterproof / Weatherproof Case	Waterproof Case (40m) WP-DC54
Flash	Canon High Power Flash HF-DC2
Power Supply & Battery Chargers	AC Adapter Kit ACK-DC110, Battery Charger CB-2LHE
Other	Interface cable IFC-400PCU Canon AV cable AVC-DC400ST

PHYSICAL SPECIFICATIONS	
Operating Environment	0 – 40 °C, 10 – 90% humidity
Dimensions (WxHxD)	103.0 x 60.4 x 40.4 mm
Weight	Approx. 304 g (including battery and memory card)

All data is based on Canon standard testing methods (according to CIPA Standards) except where indicated.
Subject to change without notice.

[1] Depending on the image size selected.
[3] Under conditions where the flash does not fire.
[4] Depending on memory card speed / capacity / compression setting.
[6] Some settings limit availability.
[7] The following Speed Class memory cards are required for maximum record time: (HD) 1280 x 720 Speed Class 4 or above. (Full HD) 1920 x 1080 Speed Class 6 or above. (iFrame) 1280 x 720 Speed Class 6 or above.
[11] Wi-Fi use may be restricted in certain countries or regions. Wi-Fi support varies by device and region. For more information visit www.canon-europe.com/wirelesscompacts
[12] Sustained continuous shooting function requires compatible SDHC/SDXC UHS Speed Class 1 memory card, total number of frames captured varies depending on shooting subject.
[13] Values at maximum optical focal length. Cameras whose focal length exceeds 350 mm (35 mm equivalent) are measured at 350 mm.
[14] Image processing may cause a decrease in the number of pixels.
[15] ISO sensitivity denotes Recommended Exposure Index

Canon Inc.
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Sales Start Date: October 2014

Product Details:

Product Name	Mercury Code	EAN Code	Recommended Retail Price
Digital Camera PowerShot G7 X EU23	9546B002AA	4549292020373	<Please fill in RRP>

Optional Accessories:

Product Name	Mercury Code	EAN Code	Recommended Retail Price
Battery Charger CB-2LHE	9841B001AA	4549292020625	<Please fill in RRP>
Battery Pack NB-13L	9839B001AA	4549292020502	<Please fill in RRP>
AC Adapter Kit ACK-DC110	9838B003AA	4549292020694	<Please fill in RRP>
High-Power Flash HF-DC2	5189B001AA	4960999782232	<Please fill in RRP>
Interface cable IFC-400PCU	9370A001AA	4960999209906	<Please fill in RRP>
AV Cable AVC-DC400ST	4076B001AA	4960999659275	<Please fill in RRP>
Soft case DCC-1870	0040X370	8714574625140	<Please fill in RRP>
Waterproof Case WP-DC54	9837B001AA	454929 2020649	<Please fill in RRP>
PowerShot Accessory Organizer	0036X433	8714574583167	<Please fill in RRP>

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Measurement / Logistic Information:

Product Name	Mercury code	Pack type	Pack description	Quantity per pack	Length (mm)	Width (mm)	Height (mm)	Net Weight (kg)	Gross Weight (kg)
Digital Camera PowerShot G7 X EU23	9546B002AA	EA	Each	1	160	146	75.5	0.419	0.722
		CT	Carton	10	396	313	200	10.72	11.32
		EP	Euro Pallet	360	1200	800	1242	N/A	287
Euro Pallet information			Layers per pallet	6					
			Cartons per layer	6					
			Products per layer	60					

What's in the box?

- Digital Camera PowerShot G7 X
- Wrist Strap WS-DC12
- Battery Pack NB-13L
- Battery Charger CB-2LHE
- AC Cable
- User Manual Kit

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